

SAFETY DATA SHEET

LOWINOX® TBM6 POWDER



Version 3.11
Revision Date: 09/27/2022

Date of last issue: 03/24/2021
Date of first issue: 09/27/2022

SECTION 1. IDENTIFICATION

Product identifier

Product name : LOWINOX® TBM6 POWDER
Other means of identification : 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol

Recommended use of the chemical and restrictions on use

Recommended use : Antioxidant
Polymer stabilizer
Restrictions on use : Reserved for industrial and professional use.

Manufacturer or supplier's details

Supplier

Company : SI Group USA (USAA), LLC
Address : 1790 Hughes Landing Blvd., Suite 600
The Woodlands, TX
United States of America (USA)
77380
E-mail address : msdsrequest@siigroup.com

Emergency telephone number

Emergency Phone Number : CHEMTREC/US : +1 703-741-5970
NCEC/CHINA : 400 120 6011
NCEC/INDIA : 000 800 100 7479
NCEC/ROW : +44 1235 239670

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin sensitisation : Category 1
Short-term (acute) aquatic hazard : Category 1
Long-term (chronic) aquatic hazard : Category 1

GHS label elements

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Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

May form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

:

Mixture

Substance name

:

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol

CAS-No.

:

96-69-5

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	>= 90 - <= 100

The exact percentage concentrations of components are being withheld as a trade secret in accordance with paragraph (i) of §1910.1200

SECTION 4. FIRST AID MEASURES

General advice

:

Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

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If inhaled	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	: Product dust may be irritating to eyes, skin and respiratory system. Allergic appearance sensitising effects
Notes to physician	: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Hazardous combustion products	: No hazardous combustion products are known
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
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- Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Non-sparking tools should be used.
Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.
-

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Minimize dust generation and accumulation.
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
Keep away from heat and sources of ignition.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
Store at temperatures not exceeding 35 °C
Keep away from fire, sparks and heated surfaces.
In case of occurrence of dust, risk of dust explosion.
- Materials to avoid : Never allow product to get in contact with water during storage.
- Further information on storage stability : Keep in a dry place.
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
6,6'-di-tert-butyl-4,4'-thiodim-cresol	96-69-5	TWA8-hour time weighted average (total dust)	15 mg/m3	OSHA Z-1USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA8-hour time weighted average (respirable fraction)	5 mg/m3	OSHA Z-1USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA8-hour time weighted average (Total)	10 mg/m3	OSHA P0USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA8-hour time weighted average (Respirable fraction)	5 mg/m3	OSHA P0USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWATime-weighted average concentration for up to a 10-hour workday during a 40-hour workweek (Respirable)	5 mg/m3	NIOSH RELUSA. NIOSH Recommended Exposure Limits
		TWATime-weighted average concentration for up to a 10-hour workday during a 40-hour workweek (total)	10 mg/m3	NIOSH RELUSA. NIOSH Recommended Exposure Limits
		TWA8-hour, time-weighted	1 mg/m3	ACGIHUSA. ACGIH

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		average (Inhalable particulate matter)		Threshold Limit Values (TLV)
		TWA8-hour time weighted average (Total dust)	10 mg/m ³	OSHA POU.SA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA8-hour time weighted average (respirable dust fraction)	5 mg/m ³	OSHA POU.SA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Engineering measures

- : It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.
- Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.
- Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m³ - total dust, 5 mg/m³ - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m³ - respirable particles, 10 mg/m³ - inhalable particles.
- Use with local exhaust ventilation.
- Adequate general ventilation is recommended when handling to control airborne levels.
- Use mechanical ventilation for general area control.

Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

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	Dust safety masks are recommended when the dust concentration is more than 10 mg/m ³ .
Hand protection	
Remarks	: Polyvinyl alcohol or nitrile- butyl-rubber gloves Before removing gloves clean them with soap and water.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	: Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Environmental exposure controls

Water : Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder, or, pellets
Colour	: white to cream
Odour	: phenol-like
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: 320 - 327 °F / 160 - 164 °C
Boiling point/boiling range	: 572 °F / 300 °C Decomposes
Flash point	: 419 °F / 215 °C Method: open cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: 30 mg/m ³
Vapour pressure	: 67 hPa (68 °F / 20 °C)
Relative vapour density	: > 2

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	(Air = 1.0)
Relative density	: 1.1 (68 °F / 20 °C)
Density	: No data available
Bulk density	: No data available
Solubility(ies)	
Water solubility	: 0.8 g/l (77 °F / 25 °C)
Solubility in other solvents	: 200 g/l (68 °F / 20 °C) Solvent: Acetone
	790 g/l (68 °F / 20 °C) Solvent: Methanol
	5 g/l (68 °F / 20 °C) Solvent: Diethylether
Partition coefficient: n-octanol/water	: Pow: 8.24estimated
Auto-ignition temperature	: 680 °F / 360 °C
	Auto-flammability
Decomposition temperature	: 572 °F / 300 °C
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Surface tension	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Will not occur.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Iron
Hazardous decomposition products	: Sulphur oxides Carbon dioxide (CO ₂) Carbon monoxide

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Skin contact

Acute toxicity**Product:**

Acute oral toxicity : LD50 (Mouse): 4,750 mg/kg

LD50 (Rabbit): 3,200 mg/kg

LD50 (Rat): 2,345 mg/kg

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : LD50 (Rabbit): > 5,010 mg/kg

Skin corrosion/irritation**Product:**

Species : Rabbit

Result : No skin irritation

Remarks : No significant adverse effects were reported

Serious eye damage/eye irritation**Product:**

Species : Rabbit

Result : slight irritation

Remarks : No significant adverse effects were reported

Respiratory or skin sensitisation**Product:**

Remarks : Causes sensitisation.

Components:**6,6'-di-tert-butyl-4,4'-thiodi-m-cresol:**

Species : Guinea pig

Assessment : May cause sensitisation by skin contact.

Result : May cause sensitisation by skin contact.

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Germ cell mutagenicity - Assessment : Not classified due to lack of data.

Carcinogenicity

Product:

Remarks : This information is not available.

Carcinogenicity - Assessment : Not classified due to lack of data.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Reproductive toxicity - Assessment : Not classified due to lack of data.

STOT - single exposure

Product:

Assessment : Not classified due to lack of data.

STOT - repeated exposure

Product:

Assessment : Not classified due to lack of data.

Repeated dose toxicity

Product:

Remarks : No data available

Aspiration toxicity

Product:

No aspiration toxicity classification

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Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.16 mg/l
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill)): 0.24 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 0.14 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.23 mg/l
Exposure time: 24 h

EC50 (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Algae): 126 mg/l
Exposure time: 96 h

Toxicity to microorganisms : Remarks: Not classified due to lack of data.

Components:

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.36 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 48 h

Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

Components:

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol:

Biodegradability : Result: According to the results of tests of biodegradability

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this product is not readily biodegradable.
Remarks: Not readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Mobility in soil

Product:

Mobility : Remarks: No data available

Stability in soil : Remarks: Adsorbs on soil.

Other adverse effects

Product:

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(6,6-di-tert-butyl-4,-4-thiodi-mcresol)
Class : 9
Packing group : III
Labels : Class 9 - Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(6,6-di-tert-butyl-4,-4-thiodi-mcresol, 6,6-di-tert-butyl-4,-4-thiodi-mcresol)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail.

National Regulations**49 CFR**

UN/ID/NA number : UN 3077
Proper shipping name : Environmentally hazardous substances, solid, n.o.s.
(6,6-di-tert-butyl-4,-4-thiodi-mcresol)
Class : 9
Packing group : III
Labels : Class 9 - Miscellaneous Dangerous Goods
ERG Code : 171
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
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SARA 311/312 Hazards : Acute Health Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations**Massachusetts Right To Know**

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol 96-69-5

Pennsylvania Right To Know

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol 96-69-5

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

New Jersey Right To Know

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol 96-69-5

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California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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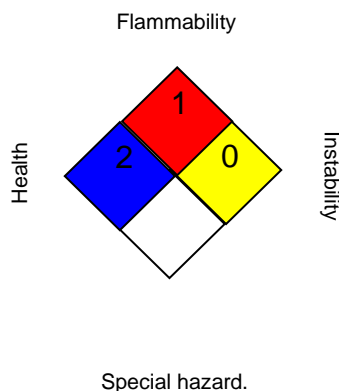
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registra-

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tion, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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